Clarke®

185MM CIRCULAR SAW

MODEL NO: CCS185

PART NO: 6462300

OPERATION & MAINTENANCE INSTRUCTIONS

CE

LS1211

INTRODUCTION

Thank you for purchasing this CLARKE 185mm Circular Saw.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

SPECIFICATIONS

Model Number	CCS185
Rated Voltage	230V~50Hz
Power Input	1200 W
No Load Speed	4800 RPM
Maximum Depth of Cut	65 mm @ 90° - 44 mm @ 45°
Blade Dimensions	185 mm Ø x 16 mm Bore
Sound Pressure Level LpA	96.3 dB(A)
Sound Power Level LWA	107.3 dB(A)
Uncertainty Factor (K)	3 dB(A)
Weight	4 kg
Vibration	2.46 m/s^2 Uncertainty Factor 1.5
Dimensions (L x W x H)	285 mm x 237 mm x 246 mm

POWER TOOL SAFETY WARNINGS

WORK AREA

1. **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use adaptor plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
2. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
3. **Do not abuse the cable. Never use it for carrying, pulling or unplugging the power tool. Keep the cable away from heat, oil, sharp edges or moving parts.** Damaged or entangled cables increase the risk of electric shock.
4. **When operating a power tool outdoors, use an extension cable suitable for outdoor use.** Use of a cable suitable for outdoor use reduces the risk of electric shock
5. **If operating the power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.**

PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in personal injury.
2. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
3. **Avoid accidental starting**. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
4. **Remove any wrench before turning the power tool on**. A wrench left attached to a rotating part may result in personal injury.
5. **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. **Dress properly.** Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

POWER TOOL USE AND CARE

1. **Do not force the power tool.** Use the correct accessories for your application. The correct power tool will do the job better and safer at the rate which it was designed for.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source before changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **Store idle tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate it.** Power tools are dangerous in the hands of untrained users.
5. **Maintain power tools**. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. **Use the power tool and accessories in accordance with these instructions and in the manner intended, taking into account the working conditions and the work to be performed**. Use of the power tool for operations different from intended could result in a hazardous situation.
7. The performance of this tool may vary, depending upon variations in line voltage. Extension cable usage may also affect performance.

SERVICE

1. **Have your power tool serviced by qualified service personnel using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

SAFETY INSTRUCTIONS FOR ALL SAWS

a. **Keep hands away from cutting area and the blade.** Keep your second hand on the auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.

b. **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.

c. **Adjust the cutting depth to the thickness of the workpiece**. Less than a full tooth of the blade teeth should be visible below the workpiece.

d. **Never hold the piece being cut in your hands or across your leg.** Secure the workpiece to a stable platform. It is important to support the work properly to minimise body exposure, blade binding, or loss of control.

e. **Hold the power tool by insulated gripping surfaces when performing an operation**. Contact with a"live" wire will also make exposed metal parts of the power tool "live" and shock the operator.

f. **Always use blades with the correct size and shape of arbor holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.

g. **Never use damaged or incorrect blade washers or bolt**. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

PREVENTION OF KICKBACK

Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.

When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.

If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator. Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a. Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.

b. When the blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

c. When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged with the material. If the blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.

d. Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

e. Blade depth and bevel adjusting locking screws must be tight and secure before making a cut. If blade adjustment shifts while cutting, it may cause binding and kickback.

f. Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

CIRCULAR SAW BLADE SAFETY WARNINGS

a. The maximum speed marked on the tool shall not exceed the maximum speed marked on the blade.

b. Cracked circular saw blades shall be scrapped (repairing is not permitted). Composite (tipped) circular saw blades, where the tip dimension is reduced to less than 1 mm, shall be taken out of service.

c. Fastening screws and nuts shall be tightened using the tools supplied.

d. Clamping surfaces shall be cleaned to remove dirt, grease, oil and water.

e. Do not use loose rings or bushes to "make up" bore sizes on circular saw blades.

EXPLANATION OF SYMBOLS & PICTOGRAMS

Read Instruction Manual Before Use

Wear Eye Protection

Wear Ear Defenders

Wear Gloves

ELECTRICAL CONNECTIONS

WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

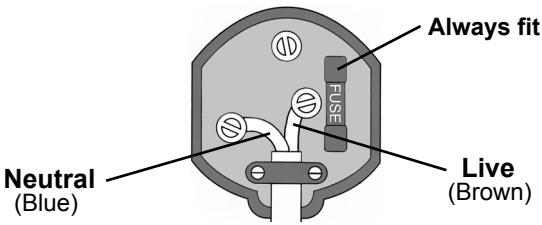
If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
BLUE = NEUTRAL BROWN = LIVE

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The wire which is coloured **Blue** must be connected to the terminal which is marked **N** or coloured **Black**.
- The wire which is coloured **Brown** must be connected to the terminal which is marked **L** or coloured **Red**.

Plug must be BS1363/A approved.

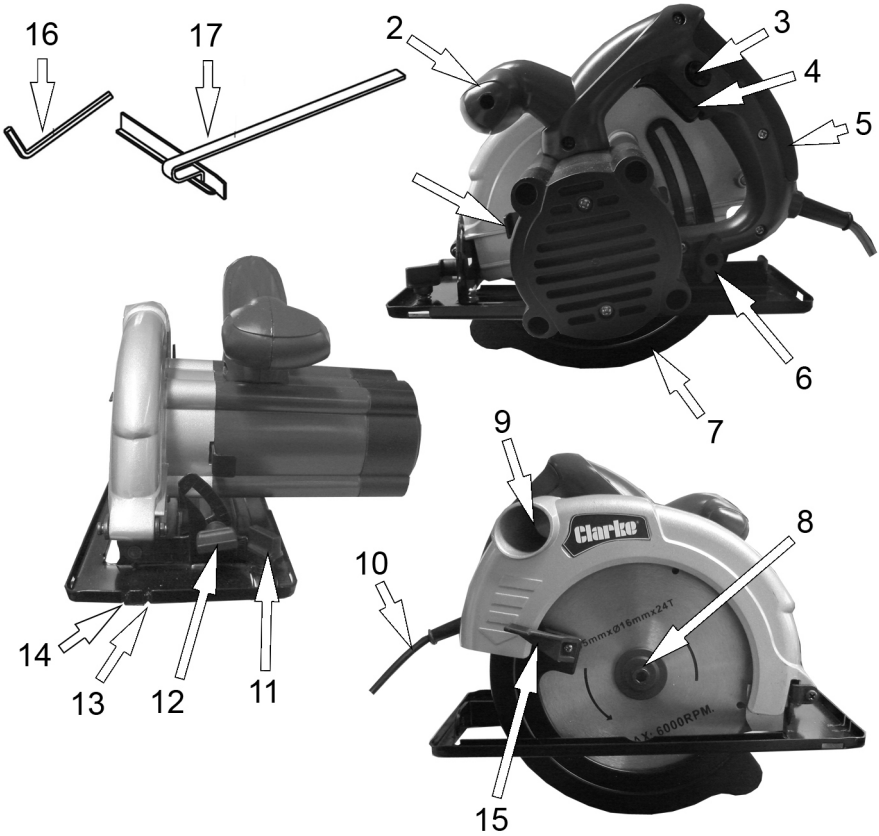


Ensure that the outer sheath of the cable is firmly held by the clamp

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

This symbol indicates that this is a Class II product, and does not require an earth connection.

PART IDENTIFICATION.



1	Blade Lock	10	Mains Lead
2	Auxillary Handle	11	Parallel Guide Locking Screw
3	Safety Lock Button	12	Bevel Adjustment Knob
4	On/Off Trigger	13	Mark For Bevel Cut
5	Handle	14	Mark For Straight Cut
6	Depth Adjustment Knob	15	Lower Guard Retracting Lever
7	Lower Guard	16	Hexagon Key
8	Blade Clamping Screw	17	Parrallel Guide
9	Dust Extraction Outlet		

CARTON CONTENTS

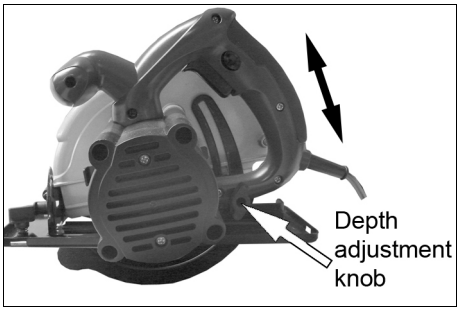
The following items should be supplied in the carton. If any parts are missing or damaged, please contact the Clarke dealer where you purchased the tool.

- 1 x 1200 Watt Circular Saw.
- 1 x 185 mm Ø x 16 mm Bore x 24 Tooth TCT blade.(assembled on tool).
- 1 x Parallel Fence.
- 1 x 6 mm Hexagon Key.

ADJUSTMENTS

DEPTH OF CUT ADJUSTMENT

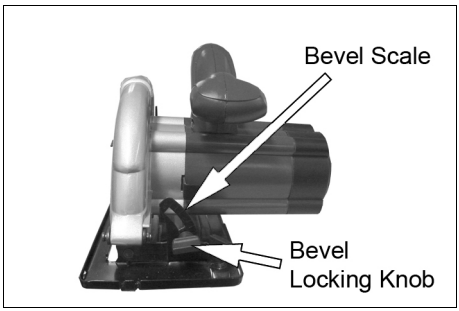
1. Loosen the depth adjustment knob.
2. Adjust the base plate until the required depth of blade is protruding through the base plate.
3. Tighten the depth adjustment knob.



NOTE: For optimum results, a full tooth of the blade teeth should just be visible below the workpiece.

BEVEL ADJUSTMENT

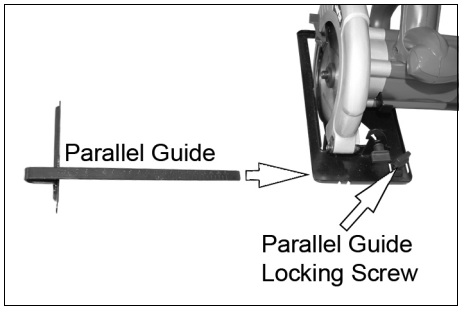
1. Loosen the bevel locking knob.
2. Adjust the base plate to the required angle (max 45°)
   - Use the bevel scale as a guide only, for accurate angles use a protractor.
3. Tighten the bevel adjustment knob to secure.



MOUNTING AND USING THE PARALLEL GUIDE

MOUNTING

1. Slide the parallel guide into the base plate as shown.
2. Secure in place using the parallel guide locking screw.



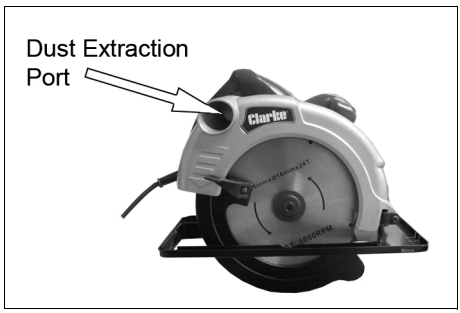
ADJUSTING

1. Loosen the Parallel Guide Locking Screw.
2. Adjust the Parallel Guide to the required length.
   - There is a scale on the parallel guide that can be used to give an approximate guide. always double check using an accurate ruler.
3. Tighten the Parallel Guide Locking Screw to secure the parallel guide in position.

DUST EXTRACTION

The circular saw can be connected to a dust extraction system, using a suitable hose adaptor (not supplied).

- The internal diameter of the dust extraction outlet is 30mm.



OPERATION & USE

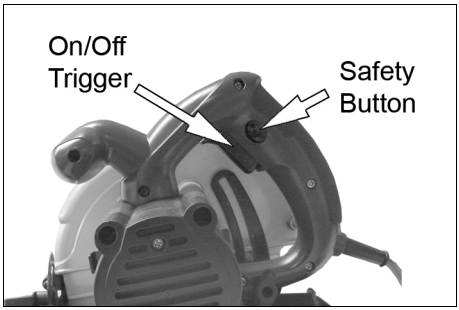
CORRECT HAND POSITION

For your own safety, always hold the circular saw as shown in this picture, with one hand on the main handle and the other on the auxiliary handle.

SWITCHING ON/OFF

The on/off trigger is fitted with a safety button which prevents the circular saw from being started accidentally. To start the saw:

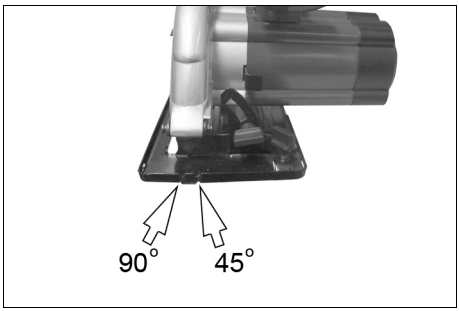
1. Press and hold the safety button.
2. Squeeze the on/off trigger at the same time.
3. Release the on/off trigger to stop the saw.
4. The blade will continue to rotate for several seconds after the trigger has been released.



GUIDING THE CIRCULAR SAW

To achieve optimal results:

- Clamp the workpiece upside down to minimise breakout.
- Follow the line drawn on the workpiece using the 90° mark.
- If cutting a bevel angle of 45°, follow the line drawn on the workpiece using the 45° mark.



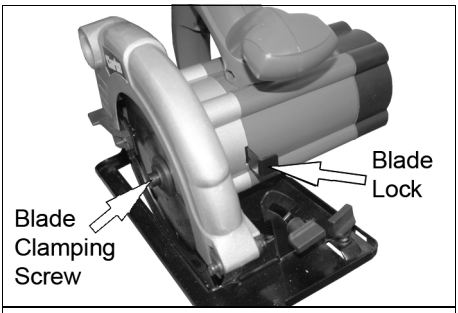
MAINTENANCE

WARNING: DISCONNECT THE CIRCULAR SAW FROM THE MAINS SUPPLY BEFORE FITTING REPLACEMENT BLADES, CLEANING OR ADJUSTMENT.

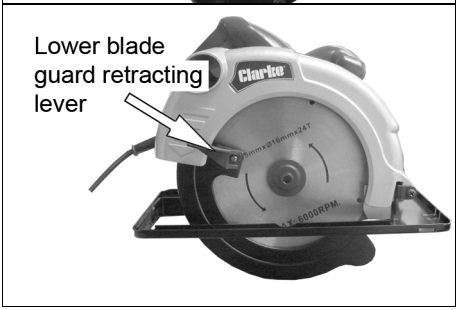
Keep the machine clean by wiping off dust with a clean cloth.

BLADE REPLACEMENT

1. Press and hold the Blade lock and remove the blade clamping screw using the hexagon key supplied by turning it anti-clockwise.
   - The blade will rotate until the blade lock is fully engaged.



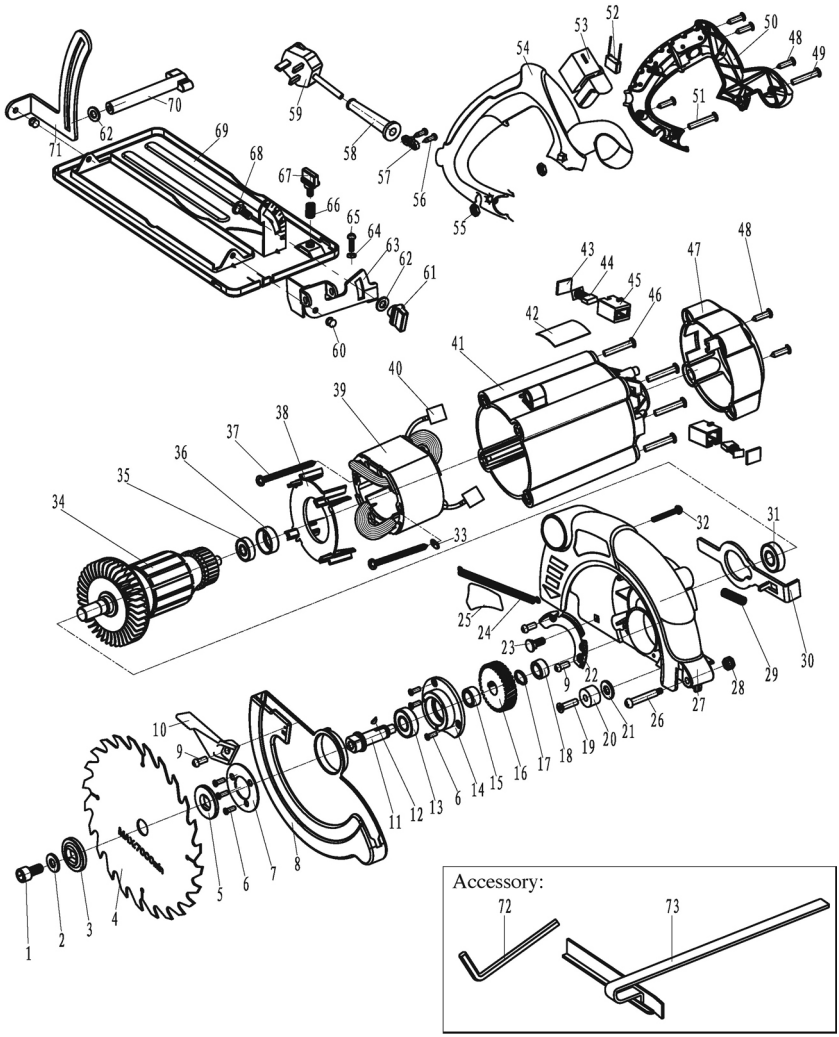
2. Retract the lower blade guard using the retracting lever and replace the blade.
   - Make sure you pay attention to the blade direction marking on the blade.
   - Spare blades are available from your local Clarke dealer.



3. Replace the blade clamping screw by hand until it is holding the blade in position.
4. Press and hold the blade lock and turn the blade by hand until the blade lock is fully engaged.
5. Tighten the blade clamping screw using the hexagon key supplied.

Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

PARTS DIAGRAM



PARTS LIST

1	Screw M8x16	HTCCS18501
2	Washer	HTCCS18502
3	Outer Flange	HTCCS18503
4	Blade	HTCCS18504
5	Clamping Flange	HTCCS18505
6	Screw M4xi0	HTCCS18506
7	Mobile Guard Flange	HTCCS18507
8	Blade Upper Guard	HTCCS18508
9	Screw M4x8	HTCCS18509
10	Spanner	HTCCS18510
11	Spindle	HTCCS18511
12	Key 0 10x 3	HTCCS18512
13	Bearing 6001-2rs	HTCCS18513
14	Front Cover	HTCCS18514
15	Copper Sleeve	HTCCS18515
16	Big Gear	HTCCS18516
17	Retaining Ring	HTCCS18517
18	Bearing	HTCCS18518
19	Screw	HTCCS18519
20	Fixed Ring	HTCCS18520
21	Big Washer	HTCCS18521
22	Small Iron Patch	HTCCS18522
23	Bolt	HTCCS18523
24	Revived Spring	HTCCS18524
25	Brand Table	HTCCS18525
26	Screw	HTCCS18526
27	Head Cover	HTCCS18527
28	Nut	HTCCS18528
29	Self-locking Spring	HTCCS18529
30	Self-locking Slice	HTCCS18530
31	Bearing	HTCCS18531
32	Screw	HTCCS18532
33	Board	HTCCS18533
34	Rotor	HTCCS18534
35	Bearing	HTCCS18535
36	Bearing Cover	HTCCS18536
37	Screw	HTCCS18537
38	Fan Shroud	HTCCS18538
39	Stator	HTCCS18539
40	Square Slice	HTCCS18540
41	Housing	HTCCS18541
42	Specification Table	HTCCS18542
43	Brush Holder Cover	HTCCS18543
44	Carbon Brush	HTCCS18544
45	Brush Holey	HTCCS18545
46	Screw	HTCCS18546
47	Rear Shade	HTCCS18547
48	Screw	HTCCS18548
49	Screw	HTCCS18549
50	Left Hand Shank	HTCCS18550
51	Screw	HTCCS18551
52	Cpacitor	HTCCS18552
53	Switch	HTCCS18553
54	Right Hand Shank	HTCCS18554
55	Nut	HTCCS18555
56	Screw	HTCCS18556
57	Cable Flange	HTCCS18557
58	Cable Sleeve	HTCCS18558
59	Cable	HTCCS18559
60	Nut	HTCCS18560
61	Lock Button	HTCCS18561
62	Flat Washer	HTCCS18562
63	Angle Bracket	HTCCS18563
64	Nut	HTCCS18564
65	Screw	HTCCS18565
66	Spring	HTCCS18566
67	Button	HTCCS18567
68	Bolt	HTCCS18568
69	Base	HTCCS18569
70	Depth Lock Pole	HTCCS18570
71	Depth Bracket	HTCCS18571
72	Spanner	HTCCS18572
73	Parallel Guide	HTCCS18573

DECLARATION OF CONFORMITY

CE

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC *Electromagnetic Compatibility Directive.*

2006/42/EC *Machinery Directive.*

2006/95EC *Low Voltage Equipment Directive.*

2002/95/EC *Restriction of Hazardous substances.*

The following standards have been applied to the product(s):

EN 60745-1:2009, EN 60745-2-5:2007, EN 55014-1:2006, EN 55014-2:1997+A1:2001,

EN 61000-3-2:2006, EN 61000-3-3:1995+A1:2001+A2:2005, EN 60825-1:2007, EN 61010-1:2001.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2006

Product Description:	1600W 185mm 'Contractor' Circular Saw with Laser Guide.
	1200W 185mm Circular Saw.
Model number(s):	CCS185
	CON185
Serial / batch Number:	N/A
Date of Issue:	09/09/2011

Signed:

.....

J.A. Clarke

Director

10-03223 Circular saw DOC rv1

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